



BlackNet is in the business of buying, selling, trading, and otherwise dealing with \*information\* in all its many forms.

We buy and sell information using public key cryptosystems with essentially perfect security for our customers. Unless you tell us who you are (please don't!) or inadvertently reveal information which provides clues, we have no way of identifying you, nor you us.

Our location in physical space is unimportant. Our location in cyberspace is all that matters. Our primary address is the PGP key location:

"BlackNet<nowhere@cyberspace.nil>" and we can be contacted (preferably through a chain of anonymous remailers) by encrypting a message to our public key (contained below) and depositing this message in one of the several locations in cyberspace we monitor. Currently, we monitor the following location: the "Cypherpunks" mailing list (cypherpunks@toad.com).

BlackNet is nominally nondideological, but considers nation-states, export laws, patent laws, national security considerations and the like to be relics of the pre-cyberspace era. Export and patent laws are often used to explicitly project national power and imperialist, colonialist state fascism. BlackNet believes it is solely the responsibility of a secret holder to keep that secret--not the responsibility of the State, or of us, or of anyone else who may come into possession of that secret. If a secret's worth having, it's worth protecting.

BlackNet is currently building its information inventory. We are interested in information in the following areas, though any other juicy stuff is always welcome. "If you think it's valuable, offer it to us first."

- trade secrets, processes, production methods (esp. in semiconductors)
- nanotechnology and related techniques (esp. the Merkle sleeve bearing)
- chemical manufacturing and rational drug design (esp. fullerenes and protein folding)
- new product plans, from children's toys to cruise missiles (anything on "3DO"?)
- business intelligence, mergers, buyouts, rumors

BlackNet can make anonymous deposits to the bank account of your choice, where local banking laws permit, can mail cash directly (you assume the risk of theft or seizure), or can credit you in "CryptoCredits," the internal currency of BlackNet (which you then might use to buy \_other\_ information and have it encrypted to your special public key and posted in public place).

If you are interested, do NOT attempt to contact us directly (you'll be wasting your time), and do NOT post anything that contains your name, your e-mail address, etc. Rather, compose your message, encrypt it with the public key of BlackNet (included below), and use an anonymous remailer

chain of one or more links to post this encrypted, anonymized message in one of the locations listed (more will be added later). Be sure to describe what you are selling, what value you think it has, your payment terms, and, of course, a special public key (NOT the one you use in your ordinary business, of course!) that we can use to get back in touch with you. Then watch the same public spaces for a reply.

(With these remailers, local PGP encryption within the remailers, the use of special public keys, and the public postings of the encrypted messages, a secure, two-way, untraceable, and fully anonymous channel has been opened between the customer and BlackNet. This is the key to BlackNet.)

A more complete tutorial on using BlackNet will soon appear, in plaintext form, in certain locations in cyberspace.

Join us in this revolutionary--and profitable--venture.

BlackNet<nowhere@cyberspace.nil>

-----BEGIN PGP PUBLIC KEY BLOCK-----

Version: 2.2

mQA9Ai1bN6oAAAEbgM98haqmu+pqkoqkr95iMmBTNgb+iL54kUJCoBS0rT0Rqsmz  
KHcVaQ+p4vLIWlrRawAFebQgQmxhY2t0ZXQ8bm93aGVyZUBjeWJlcnNwYWNLm5p  
bD4=  
=yOMI

-----END PGP PUBLIC KEY BLOCK-----

-----  
Date: Tue, 15 Feb 1994 09:12:21 GMT  
From: ucsnews!newshub.sdsu.edu!usc!howland.reston.ans.net!xlink.net!gmd.de!  
peter.henne@gmd.de@network.ucsd.edu  
Subject: APT-Satellites: Report FEB 14, 1994  
To: ham-space@ucsd.edu

Observed at station 50.7 NLat, 7.1 ELon, FEB 14, 1994

NOAA-9:        APT 137.62 On  
NOAA-10:       APT 137.50 On  
NOAA-11:       APT 137.62 On  
NOAA-12:       APT 137.50 On  
Meteor 2-21: APT 137.85 On (weak)

Signal of Meteor 2-21 seems to become a bit stronger,  
but remains weak compared to the other APT-Satellites.

Meteor 3-3, -4, -5 and -6 were inactive. The illumination-conditions over the northern hemisphere slowly become better, increasing the vis-contrast (exspecially for NOAA-9). NOAA-11 drifted to late afternoon, passing northbound roughly one hour west of the terminator at 50 deg NLat, the right parts of vis-images are quite dim.

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+-----+
|Peter Henne (peter.henne@gmd.de)      |
|          (henne@gmd.de)              |
|German Nat.Research Center.f.Comp.Science |
|D-53754 St.AUGUSTIN, Germany          |
+-----+
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Date: Mon, 14 Feb 1994 06:34:38 -0700  
From: agate!howland.reston.ans.net!wupost!gumby!destroyer!nntp.cs.ubc.ca!alberta!  
ve6mgs!usenet@ames.arpa  
Subject: ARLK006 Keplerian data  
To: ham-space@ucsd.edu

SB KEP @ ARL \$ARLK006  
ARLK006 Keplerian data

ZCZC SK73  
QST de W1AW  
Keplerian Bulletin 6 ARLK006

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Date: Wed, 16 Feb 1994 11:45:57 GMT  
From: agate!howland.reston.ans.net!torn!csd.unb.ca!upei.ca!UPEI.CA!  
seeler@network.ucsd.edu  
Subject: Cable Before the PreAmp  
To: ham-space@ucsd.edu

The system I am currently using has two omni directional antennas for 2 meters and 70 cm. The 70 cm antenna is the M Square egg beater and it is up about 20 feet - connected to the rig with Beldin 9913 via N connectors. I do okay on the 9.6 Kb birds: I can copy from an elevation of about 15 degrees (- can hear the bird at 2 degrees elevation) - but the signal is rarely above S1.5 on the IC475. Fortunately noise and interference is not a problem here on the Island. BUT - as soon as it gets above freezing I plan to put a landwehr preamp up at the base of the antenna to improve the stations performance on receive.

My question is this:

What cable/coax should I use for the patch cable between the antenna and preamp. I would like to make the distance as short as possible - but too short and even RG213 will not make the turn to get to the preamp input without distorting the cable's properties. Is a 12 inch run of smaller cable bad news? Should I use a longer run of Rg 213 or 9913? What would have the least impact upon the preamp's performance?

I understand that flexible 9913 is used for the system using yagis - but there the patch cable is probably in excess of 10 feet depending on the setup. - Is flexi 9913 able to make a decent turn - so that a patch cable in an omni system is a reasonable size?

Thank you for any information you might be able to provide me on what is essentially a practical question.

73 David, VY2DCS

Internet: Seeler@upei.ca

-----  
Date: 17 Feb 94 00:11:53 GMT  
From: munnari.oz.au!newshost.anu.edu.au!sserve!usage!metro!news.ci.com.au!eram!  
dave@network.ucsd.edu  
Subject: Daily IPS Report - 17 Feb 94  
To: ham-space@ucsd.edu

IPS RADIO AND SPACE SERVICES AUSTRALIA  
Daily Solar And Geophysical Report  
Issued at 2330 UT 16 February 1994  
Summary for 16 February and Forecast up to 19 February  
IPS Warning 05 was issued on 14 Feb and is still current.  
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1A. SOLAR SUMMARY  
Activity: very low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : 105/054

1B. SOLAR FORECAST

|          | 17 February   | 18 February   | 19 February   |
|----------|---------------|---------------|---------------|
| Activity | Low           | Low           | Low           |
| Fadeouts | None expected | None expected | None expected |

Forecast 10.7 cm flux/Equivalent Sunspot Number : 105/054

1C. SOLAR COMMENT

None.

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2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth : unsettled to active

| Estimated Indices : | A  | K         | Observed A Index 15 February |
|---------------------|----|-----------|------------------------------|
| Learmonth           | 12 | 3311 4331 |                              |
| Fredericksburg      | 17 |           | 26                           |
| Planetary           | 18 |           | 18                           |

2B. MAGNETIC FORECAST

| DATE   | Ap | CONDITIONS           |
|--------|----|----------------------|
| 17 Feb | 15 | Unsettled to active. |
| 18 Feb | 10 | Unsettled.           |
| 19 Feb | 07 | Quiet to unsettled.  |

2C. MAGNETIC COMMENT

None.

3A. GLOBAL HF PROPAGATION SUMMARY

LATITUDE BAND

| DATE   | LOW    | MIDDLE | HIGH        |
|--------|--------|--------|-------------|
| 16 Feb | normal | normal | fair-normal |

PCA Event : None.

3B. GLOBAL HF PROPAGATION FORECAST

LATITUDE BAND

| DATE   | LOW    | MIDDLE | HIGH   |
|--------|--------|--------|--------|
| 17 Feb | normal | normal | fair   |
| 18 Feb | normal | normal | fair   |
| 19 Feb | normal | normal | normal |

3C. GLOBAL HF PROPAGATION COMMENT

NONE.

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4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

MUFs at Sydney were near predicted monthly values with spread F during local night.

T index: 41

4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

| DATE   | T-index | MUFs                           |
|--------|---------|--------------------------------|
| 17 Feb | 50      | Near predicted monthly values. |
| 18 Feb | 50      | Near predicted monthly values. |
| 19 Feb | 45      | Near predicted monthly values. |

Predicted Monthly T Index for February is 30.

#### 4C. AUSTRALIAN REGION COMMENT

None.

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|                        |                           |           |
|------------------------|---------------------------|-----------|
| Dave Horsfall (VK2KFU) | VK2KFU @ VK20P.NSW.AUS.OC | PGP 2.3   |
| dave@esi.COM.AU        | ...munnar!esi.COM.AU!dave | available |

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Date: 16 Feb 1994 07:34:10 -0600  
From: pacbell.com!sgiblab!swrinde!cs.utexas.edu!not-for-mail@network.ucsd.edu  
Subject: It's Official: GPS Anti-spoofing Is Now on Continuously  
To: ham-space@ucsd.edu

R 112045Z FEB 94

FM 2SOPS FALCON AFB CO//DOAI//

UNCLAS

NOTICE ADVISORY TO NAVSTAR USERS (NANU) 050-94042

SUBJ: ACTIVATION OF ANTI-SPOOFING (A/S)

1. CONDITION: A/S WAS ACTIVATED ON DAY 031 (JAN 31 94) AT 0000 UTC.  
DUE TO THE 8 DEC 93 DECLARATION OF INITIAL OPERATIONAL CAPABILITY  
(IOC) THE P-CODE WILL NOT NORMALLY BE AVAILABLE TO USERS WHO DO NOT  
HAVE VALID CRYPTOGRAPHIC KEYS (IAW FEDERAL RADIONAVIGATION PLAN  
1992).

2. POC: CAPT THOMPSON AT (719) 550-6378 OR DSN 560-6378.

RECEIVED AT USNO 14 FEB 94

|  |                                    |
|--|------------------------------------|
| Richard B. Langley                         | Internet: LANG@UNB.CA or SE@UNB.CA |
| Geodetic Research Laboratory               | BITnet: LANG@UNB or SE@UNB         |
| Dept. of Geodesy and Geomatics Engineering | Phone: (506) 453-5142              |
| University of New Brunswick                | FAX: (506) 453-4943                |
| Fredericton, N.B., Canada E3B 5A3          | Telex: 014-46202                   |

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Date: Wed, 16 Feb 1994 21:14:49 GMT  
From: library.ucla.edu!europa.eng.gtefsd.com!howland.reston.ans.net!torn!nott!  
emr1!stephens@network.ucsd.edu  
Subject: It's Official: GPS Anti-spoofing Is Now on Continuously  
To: ham-space@ucsd.edu

Anti spoofing is a system that degrades the GPS fixes of systems that are not using the classified military codes for accurate, dynamic navigation. i.e. to prevent anyone from using GPS as a means of guiding weapons or aiming them.  
Presumably 100 m is greater than the blast radius of a terrorist bomb!

--

Dave Stephenson  
Geological Survey of Canada           \*Too much bad arithmetic is not a \*  
Ottawa, Ontario, Canada            \*substitute for not enough good \*  
Internet: stephens@geod.emr.ca    \*            mathematics                \*

-----  
Date: 16 Feb 1994 16:18:53 GMT  
From: dockmaster.phantom.com!jpetith@uunet.uu.net  
Subject: It's Official: GPS Anti-spoofing Is Now on Continuously  
To: ham-space@ucsd.edu

Can anyone translate the preceeding so that a mere mortal with a GPS can understand its meaning???

.....Jack

-----  
Date: 16 Feb 94 16:14:54 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Non-delivery Notification  
To: ham-space@ucsd.edu

Hi ham-space@UCSD.EDU !

this notification concerns your message with

msgid: "<199402101213.EAA01487@ucsd.edu>"

It could not be delivered to the following recipient(s):

hb9boj@hb9eh.ampr.org

In most cases, these delivery problems are caused by spelling errors in the recipient addresses. This often happens when the FAX-Gateway is addressed. Its correct addressing is:

X.400:    /X121=9xxxxxxxx/ADMD=arcom/C=ch/



RFC-822: /X121=9xxxxxxx/ADMD=arcom/C=ch/@chx400.switch.ch

Other reasons may be:

- non-authorized use of our gateway to ADMD=arcom: It is open for users with X.400 addresses "...;PRMD=switch;ADMD=arcom;C=ch" \*and\* RFC-822 addresses ...@<somedomain>.ch only.
- an incorrectly encoded message envelope: Examples for this are missing address attributes from some very old EAN versions.
- incorrect timezones in the header's tracing info:  
We often see timezone +2900 (29 hours, 0 minutes ahead of Greenwich) from Solaris 2.3 mailers. Some MTAs (like ADMD=arcom) refuse to accept such messages. Please install improved sendmail binaries, available via anonymous ftp from

host: nic.switch.ch

path: software/Solaris/inofficial-patch/sendmail2.3.2.tar.Z

Please contact your local postmaster if you cannot work out the problem yourself !

postmaster@chx400.switch.ch

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Date: Wed, 16 Feb 1994 12:29:57 GMT

From: pacbell.com!sgiblab!swrinde!cs.utexas.edu!howland.reston.ans.net!  
darwin.sura.net!gatekeeper.es.dupont.com!esds01.es.dupont.com!

GRIB%esvx17.es.dupont.com@network.ucsd.edu

Subject: Oscar 13 questions

To: ham-space@ucsd.edu

Hi All,

As a "newbe" to satellite work, I am in the middle of assembling a Oscar 13 station. I have enough power/preamps/decent rigs for the 2 meter uplink and 435 downling (and vice versa). One thing I'm lacking is antennas for this effort. I already have the elevation rotor so I'm about ready to go. I've been looking into antennas, and need some info regarding them and circular polarization;

a) Is switchable polarization really necessary? Is there a "standard" polarization setting for the Oscar birds?

b) I have diagrams to build quagi's for satellite work. What is

the current prices vs building a quagi like. I saw some ad's for KLM antennas, and if I remember correctly, the prices were like \$150 + each. Even if I had to build a quagi a year, it would take me quite a bit of time to use up \$150 worth of materials!!

c) I saw an article in either Jan or Feb QST regarding 2304 downlinks. Are they used very much? Is it worth the effort and cost to install a 2304 downlink? I live in a rather rural area, so 2 meter interference isn't really a problem here, but was trying to get a idea of the cost vs necessity of getting up on 2304.

Thanks and 73,

Joe KI3B

-----  
Date: (null)  
From: (null)  
SB KEP ARL ARLK006  
ARLK006 Keplerian data

Thanks to NASA, AMSAT and N3FKV for the following Keplerian data.

Decode 2-line elsets with the following key:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ  
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ  
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN  
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

AO-10

1 14129U 83058B 94040.06708801 -.00000148 00000-0 10000-3 0 2607  
2 14129 27.2057 342.5166 6022455 153.1354 258.3191 2.05877972 80144

UO-11

1 14781U 84021B 94040.53052044 .00000322 00000-0 62635-4 0 6637  
2 14781 97.7907 61.1932 0011408 323.9974 36.0464 14.69140692531560

RS-10/11

1 18129U 87054A 94040.55124186 .00000030 00000-0 16659-4 0 8605  
2 18129 82.9210 63.1886 0012804 25.2124 334.9655 13.72330924332409

AO-13

1 19216U 88051B 94040.93964943 .00000390 00000-0 10000-4 0 8755  
2 19216 57.8821 268.9522 7208878 334.5703 3.1370 2.09717918 43343

FO-20

1 20480U 90013C 94035.98074861 -.00000022 00000-0 31548-4 0 6561  
2 20480 99.0184 212.8744 0540153 279.0888 74.9498 12.83223693187179

AO-21

1 21087U 91006A 94041.01003248 .00000094 00000-0 82657-4 0 4237

2 21087 82.9396 236.8134 0036944 77.6411 282.8874 13.74533854152118  
 RS-12/13  
 1 21089U 91007A 94040.58590730 .00000042 00000-0 27829-4 0 6615  
 2 21089 82.9204 106.0890 0030651 102.2186 258.2406 13.74034795151126  
 ARSENE  
 1 22654U 93031B 93338.80803910 -.00000087 00000-0 00000 0 0 2437  
 2 22654 1.4104 113.5274 2936576 161.9838 210.8642 1.42202044 2990  
 UO-14  
 1 20437U 90005B 94037.22619383 .00000077 00000-0 47034-4 0 9612  
 2 20437 98.5971 123.7526 0010334 214.1893 145.8624 14.29821595210876  
 AO-16  
 1 20439U 90005D 94037.21681236 .00000071 00000-0 44536-4 0 7626  
 2 20439 98.6031 124.8401 0010724 214.1741 145.8750 14.29877371210889  
 DO-17  
 1 20440U 90005E 94040.75231196 .00000060 00000-0 40428-4 0 7621  
 2 20440 98.6061 128.6181 0010852 203.0624 157.0068 14.30016024211408  
 WO-18  
 1 20441U 90005F 94037.22688753 .00000066 00000-0 42405-4 0 7628  
 2 20441 98.6048 125.1409 0011314 214.6745 145.3695 14.29991649210908  
 LO-19  
 1 20442U 90005G 94037.21376903 .00000072 00000-0 44757-4 0 7617  
 2 20442 98.6040 125.3540 0011701 213.9496 146.0939 14.30085714210913  
 UO-22  
 1 21575U 91050B 94040.70538846 .00000085 00000-0 43536-4 0 4637  
 2 21575 98.4469 117.7141 0007501 318.1128 41.9484 14.36888785134771  
 KO-23  
 1 22077U 92052B 94041.42783993 -.00000037 00000-0 10000-3 0 3583  
 2 22077 66.0820 185.3819 0009572 318.8321 41.1977 12.86284604 70485  
 AO-27  
 1 22825U 93061C 94037.24428981 .00000055 00000-0 40372-4 0 2598  
 2 22825 98.6630 114.3002 0008288 227.9109 132.1364 14.27605705 19007  
 IO-26  
 1 22826U 93061D 94037.72532850 .00000066 00000-0 44626-4 0 2603  
 2 22826 98.6651 114.7973 0008457 230.9496 129.0928 14.27708094 19076  
 KO-25  
 1 22830U 93061H 94040.70815228 .00000057 00000-0 40495-4 0 2625  
 2 22830 98.5680 116.3594 0011136 187.2116 172.8898 14.28032363 19500  
 POSAT  
 1 22829U 93061G 94037.20759234 .00000070 00000-0 45885-4 0 2520  
 2 22829 98.6603 114.2924 0009404 217.5862 142.4662 14.28001942 19004  
 MIR  
 1 16609U 86017A 94041.42205754 .00011161 00000-0 14078-3 0 1312  
 2 16609 51.6168 102.3559 0004327 318.6406 41.4259 15.60125914456273

Keplerian bulletins are transmitted twice weekly from W1AW.

The next scheduled transmission of these data will be Tuesday,  
 February 15, 1994, at 2330z on Baudot and AMTOR.

NNNN

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End of Ham-Space Digest V94 #32  
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